website:http://biz.LGservice.com
e-mail:http://www.LGEservice.com/techsup.html

LCD TV
SERVICE MANUAL

CHASSIS : ML-051B

MODEL : RZ/RT-37LZ55

CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.

CONTENTS

CONTENTS 2

PRODUCT SAFETY 3

SPECIFICATION 6

ADJUSTMENT INSTRUCTION.....11

TROUBLE SHOOTING 15

BLOCK DIAGRAM.....18

WIRING DIAGRAM 19

EXPLODED VIEW 20

REPLACEMENT PARTS LIST 23

SVC. SHEET .....

SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Before returning the receiver to the customer,

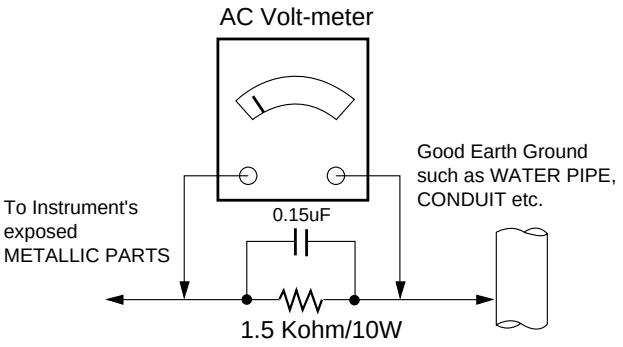
always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)
With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)
Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
   a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
   b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
   CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe.
   Do not test high voltage by "drawing an arc".
3. Do not spray chemicals on or near this receiver or any of its assemblies.
4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
   CAUTION: This is a flammable mixture.
   Unless specified otherwise in this service manual, lubrication of contacts in not required.
5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
   Always remove the test receiver ground lead last.
8. *Use with this receiver only the test fixtures specified in this service manual.*
   CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices.* Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500 °F to 600 °F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle.
   Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
   a. Allow the soldering iron tip to reach normal temperature. (500 °F to 600 °F)
   b. Heat the component lead until the solder melts.
   c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
   CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach a normal temperature (500 °F to 600 °F)
   b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
   CAUTION: Work quickly to avoid overheating the circuit board printed foil.
   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.
   CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.
   CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1.General Specification(TV)

No	Item	Specification	Remark
1.	Video input applicable system	PAL-D/K, B/G, I, NTSC-M, SECAM NTSC 4.43	
2.	Receivable Broadcasting System	1) PAL/SECAM BG 2) PAL/SECAM DK 3) PAL I/I 4) SECAM L/L'	(ZE/TE) EU/Non-EU (PAL Market) 4) Only RZ
		5) PAL-N/M 6) NTSC M	6),7) South America Market 7) Except South America NTSC Market (RM)
3.	RF Input Channel	VHF : E2 ~ E12 UHF : E21 ~ E69 CATV : S1 ~ S20 HYPER : S21~ S47	PAL
		L' : B, C, D	FRANCE
		VHF : 2~13 UHF : 14~69 CATV : 1~125	NTSC
		VHF Low : 1 ~ M10 VHF High : 4~S22 UHF : S23~62	JAPAN
4.	Input Voltage	AC 100 ~ 240 V/50Hz, 60Hz	
5.	Market	Worldwide	
6.	Picture Size	940.3mm	37.02 inch
7.	Tuning System	FVS 100 program FS	PAL, 200 PR.(Option) NTSC
8.	Operating Environment	1) Temp : 0 ~ 40 deg 2) Humidity : 10~90 %	
9.	Storage Environment	3) Temp : -20 ~ 50 deg 4) Humidity : 10~90 %	
10.	Display	LCD Module	LPL

2. General Specification

No	Item	Specification			Unit	Remark
1	Panel	37" TFT WXGA LCD				
2	Frequency range	H : 31 ~ 61Khz V : 56 ~ 75Hz				PC Input
3	Control Function	1) Contrast/Brightness 2) H-Position / V-Position 3) Tracking : Clock / Phase 4) Auto Configure 5) Reset				
4	Component Jack	1 : Y 3 : Pb 5 : Pr 7 : Line1 Ready 9 : LINE2 11: LINE3 13: Line3 Ready				Middle east / NTSC Area
	D4 Jack (525i,525p,750p,1125i)	2 : Y GND 4 : Pb GND 6 : Pr GND 8 : LINE1 10:Line2 Ready 12:SWITCH GND 14: SWITCH				JAPAN Only
5		H/V-Sync	Video	Power consumption		LED
	Power ON	ON/ON	Active	≤ max 180W	W	Green
	Stand by	OFF/ON	OFF	≤ 3.0W	W	Red
	DPMS Mode	ON/OFF	OFF	≤ typ. 30W	W	Green
	Power off	-	-	-	W	*
6	LCD Module	Type Size	LPL	877.0 x 516.8 x 55.5	mm	(H) x (V) x (D)
		Pixel Pitch	LPL	0.200 x 0.600 x RGB	㎛	
		Pixel Format	1366 horiz. By 768 vert. Pixels RGB strip arrangement			
		Coating	Hard coating(3H), Anti-glare treatment of the front polarizer,			
		Back Light	LPL	16CCFL		

3.Optical Feature(LCD Module)

No.	Item	Specification						Remark
					Min	Typ	Max	
1	Viewing Angle<CR≥10>	R/L, U/D				176, 176		
2	Luminance	Luminance(cd/㎡)				500		
		Variation					1.3	Typical
3	Contrast Ratio	CR			400	600		MAX/MIN
		CR_D (With Al)			800	1200		ALL white/All back
4	CIE Color Coordinates	WHITE	W_x	Typ.		0.285		LPL
			W_y	Typ.		0.293		
		RED	R	Typ.	Typ.	0.640		
			R_y	Typ.	-0.03	0.341	Typ.	
		GREEN	G_x	Typ.		0.287	+0.03	
			G_y	Typ.		0.610		
		BLUE	B_x	Typ.		0.146		
			B_y	Typ.		0.069		

4.Component Video Input (Y, P_B, P_R)

No	Specification				Proposed
	Resolution	H-freq(kHz)	V-freq(Hz)		
1.	640x480	15.73	60	SDTV, DVD 480i	
2.	640x480	15.63	59.94	SDTV, DVD 480i	
3.	704x480	31.47	59.94	EDTV 480p	
4.	720x576	15.625	50.00	SDTV, DVD 625 Line	
5.	720x576	31.25	50.00	HDTV 576p	
6.	1280x720	45.00	60.00	HDTV 720p	
7.	1280x720	44.96	59.94	HDTV 720p	
8.	1920x1080	31.25	50.00	HDTV 1080i 50Hz (AU Ver.)	
9.	1920x1080	33.75	60.00	HDTV 1080i 60Hz (ATSC)	
10.	1920x1080	33.72	59.94	HDTV 1080i 59.94Hz	

5. PC INPUT Mode Table

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
	Analog RGB, Digital RGB				
1	720x400	31.468	70.8	28.321	
2	640x480	31.469	59.94	25.17	VESA
		37.684	75.00	31.5	VESA
3	800x600	37.879	60.31	40.00	VESA
		46.875	75	49.5	VESA
4	832x624	49.725	74.55	57.283	
5	1024x768	48.363	60.00	65.00	VESA(XGA)
		56.47	70.00	75.00	VESA(XGA)
		60.123	75.029	78.75	VESA(XGA)
6	1280x768	47.776	59.870	79.50	VESA(WXGA)
7	1360x768	47.720	59.799	84.75	VESA(WXGA)
8	1366x768	47.720	59.799	84.75	Supported

8. HDMI INPUT Mode Table

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
	Analog RGB, Digital RGB				
1	720x400	31.468	70.8	28.321	
2	640x480	31.469	59.94	25.17	VESA
		37.684	75.00	31.5	VESA
3	800x600	37.879	60.31	40.00	VESA
		46.875	75	49.5	VESA
4	832x624	49.725	74.55	57.283	
5	1024x768	48.363	60.00	65.00	VESA(XGA)
		56.47	70.00	75.00	VESA(XGA)
		60.123	75.029	78.75	VESA(XGA)
6	1280x768	47.776	59.870	79.50	VESA(WXGA)
7	1360x768	47.720	59.799	84.75	VESA(WXGA)
8	1366x768	47.720	59.799	84.75	Supported
9	1920x1080	33.75	60.00	86.375	HDCP DVI Digital 1080i
10	1280x720	45.00	60.00	74.375	HDCP DVI Digital 720p

9. Mechanical specification

<Table 1> Scart Arrangement 1.(Full Scart)

Pin	Signal	Signal Level	Impedance
1	Audio Output B (right)	0.5 Vrms	< 1 KΩ
2	Audio Input B (right)	0.5 Vrms	> 10 KΩ
3	Audio Output A (left)	0.5 Vrms	< 1 KΩ
4	Ground (audio)	-	-
5	Ground (blue)	-	-
6	Audio input A (left)	0.5 Vrms	> 10 KΩ
7	Blue input	0.7 V	75 Ω
8	Function Select (AV control)	High (9.5 - 12V) - AV Mode Mid (5 - 8V) - Wide Screen Low (0 - 2V) - TV Mode	> 10 KΩ
9	Ground (Green)	-	-
10	Comms Data 2		
11	Green input	0.7 V	75 Ω
12	Comms Data 1		
13	Ground (Red)	-	-
14	Ground (Blanking)	-	-
15	Red input	0.7 V	75 Ω
16	RGB Switching Control	High (1 - 3V) - RGB Low (0 - 0.4V) - Composite	75 Ω
17	Ground (Video input & Output)	-	-
18	Ground (RGB Switching Control)	-	-
19	Video output (Composite)	1V including sync	75 Ω
20	Video input (Composite)	1V including sync	75 Ω
21	Common ground (Shield)	-	-

<Table 2> Scart Arrangement 2.(Half Scart)

Pin	Signal	Signal Level	Impedance
1	Audio Output B (right)	0.5 Vrms	< 1 ㏀
2	Audio Input B (right)	0.5 Vrms	> 10 ㏀
3	Audio Output A (left)	0.5 Vrms	< 1 ㏀
4	Ground (audio)	-	-
5	Ground (blue)	-	-
6	Audio input A (left)	0.5 Vrms	> 10 ㏀
7	-	-	-
8	Function Select (AV control)	High (9.5 - 12V) - AV Mode Mid (5 - 8V) - Wide Screen Low (0 - 2V) - TV Mode	> 10 ㏀
9	Ground (Green)	-	-
10	Comms Data 2		
11	-	-	-
12	Comms Data 1		
13	Ground (Red)	-	-
14	Ground (Blanking)	-	-
15	Red input		
16	-	-	-
17	Ground (Video input & Output)	-	-
18	-	-	-
19	Video output (Composite)	1V including sync	75 Ω
20	Video input (Composite)	1V including sync	75 Ω
21	Common ground (Shield)	-	-

No,	Item		Content			Remark
1	Product Dimenson		Width(W)	Length(D)	Height(H)	
		Before Packing	1061	675	269	With Stand
		After Packing	1160	800	348	
2	Product Weight	Only SET	28.9Kg			With Stand
		With Box	33.8kg			

ADJUSTMENT INSTRUCTION

1. Application Range

This spec. sheet is applied to all of the ML-051B chassis (TORNADO) manufactured at LG TV Plant

2. Specification.

2.1 Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help to protect test instruments.

2.2 Adjustment must be done in the correct sequence.

2.3 The adjustment must be performed at 25±5°C temperature and 65±10% relative humidity if there is no specified designation.

2.4 The input voltage of the receiver must be kept between 100~220V, 50/60Hz.

2.5 Before adjustment, execute Heat-Run for 30 minutes at RF no signal.

3. EDID

* Caution

- Use the proper signal cable for EDID Download
  Analog EDID: Pin3 exists

Caution: - Never connect HDMI & DVI-D & DVI-A Cable at the same time.

- Use the proper cables below for EDID Writing

No	Item	Content	Hexadecimal
1	Manufacturer ID	GSM	1E6D
2	Version	Digital 1	01
3	Revision	Digital 3	03

3.1 Data

3.1.1 ANALOG(128Bytes)

3.2.2 DIGITAL(128Bytes)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	**a**		**b**			
10	**c**		01	03	01	46	27	78	EA	D9	B0	A3	57	49	9C	25
20	11	49	4B	A5	6E	80	31	40	01	01	01	01	45	40	01	01
30	61	40	01	01	01	01	1B	21	50	A0	51	00	1E	30	48	88
40	35	00	BC	88	21	00	00	1C	4E	1F	00	80	51	00	1E	30
50	40	80	37	00	BC	88	21	00	00	18	00	00	00	FD	00	38
60	4B	1F	3D	09	00	0A	20	20	20	20	20	20	00	00	00	FC
70	**d**										0A	20	20	20	00	**e**

3.2.3 EDID FOR HDMI(256Bytes)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	**a**		**b**			
10	**c**		01	03	80	46	27	78	EA	D9	B0	A3	57	49	9C	25
20	11	49	4B	A5	6E	80	31	40	01	01	01	01	45	40	01	01
30	61	40	01	01	01	01	1B	21	50	A0	51	00	1E	30	48	88
40	35	00	BC	88	21	00	00	1C	4E	1F	00	80	51	00	1E	30
50	40	80	37	00	BC	88	21	00	00	18	00	00	00	FC	00	52
60	**d**										0A	20	20	20	00	00	00	FD
70	00	38	4B	1F	3D	09	00	0A	20	20	20	20	20	20	01	**e**

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	02	03	21	D1	46	85	04	02	01	03	00	23	09	07	07	23
10	09	07	07	23	09	07	07	83	01	00	00	65	03	0C	00	10
20	00	01	1D	00	80	51	D0	1C	20	40	80	35	00	BC	88	21
30	00	00	1E	8C	0A	D0	8A	20	E0	2D	10	10	3E	96	00	13
40	8E	21	00	00	18	2A	12	00	10	41	43	17	20	28	60	35
50	00	00	00	32	00	00	1C	01	1D	80	18	71	1C	16	20	58
60	2C	25	00	C4	8E	21	00	00	00	9E	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	DB

=> Detail EDID Options are below(a, b, c, d, e)

a. Product ID

Model name	Product ID	Product ID		
		Dec	Hex	EDID Table
RZ-37LZ55	30045(A)	30045(A)	755D	5D75
	30046(A)	30046(D)	755E	5E75
RT-37LZ55	30051(A)	30051(A)	7563	6375
	30052(D)	30052(D)	7564	6475
RM-37LZ55	30053(A)	30053(A)	7565	6575
	30054D)	30054(D)	7566	6675

b. Serial No : Controlled on production line

c. Month, Year : Controlled on production line

d. Model Name(Hex) :

Model Name	Model Name(HEX)
RZ-37LZ55	525A2D33374C5A3535
RT-37LZ55	52542D33374C5A3535
RM-37LZ55	524D2D33374C5A3535

e. Checksum: ChangeSable by total EDID data

4. ADC Calibration

4.1 Adjustment of RF/AV/SAV
* Test Equipment
- Remote controller for adjustment
- MSPG-925F Pattern Generator->Model: 202 / Pattern: 32

4.1.1 Method of Auto RF/AV/S-VIDEO Color Balance.
1) Input the Video Signal: 75% Color Bar signal into AV3 (RZ), AV1(RT), VIDEO1(RM)
2) Set the PSM to Standard mode in the Picture menu.
3) Press ADJ key on R/C for adjustment.
4) Press the ▶(Vol. +) key to operate the set, then it becomes automatically.
5) Auto-RGB OK means the adjustment is completed.

4.2 Adjustment of Component.
* Required Equipments
- Remote controller for adjustment
- MSPG-925F Pattern Generator->Model: 215 / Pattern: 33

4.2.1 Method of Auto Component Color Balance
1) Input the Component 720p 100% Color Bar(MSPG-925F model:215, pattern:33) signal into Component. (RZ : component , RT/RM : component 1 or 2)
2) Set the PSM to Standard mode in the Picture menu.
3) Press the ADJ key on R/C for adjustment.
4) Press the ▶(Vol. +) key to operate the set , then it becomes automatically.
5) Auto-RGB OK means the adjustment is completed.

4.3 Adjustment of RGB
* Required Equipments
- Remote controller for adjustment
- MSPG-925F Pattern Generator

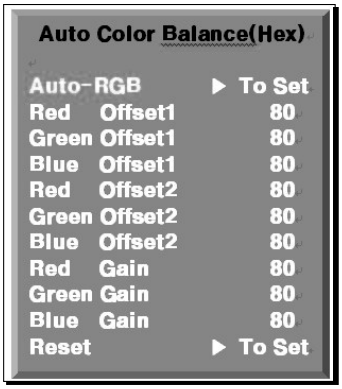
4.3.1 Method of Auto RGB Color Balance
1) Input the PC 1024x768@75Hz 1/2 Black & White Pattern(MSPG-925F model:39, pattern:18) into RGB. (using D-sub to DVI-I cable)
2) Set the PSM to Standard mode in Picture menu.
3) Press the ADJ key on R/C for adjustment.
4) Press the ▶(Vol. +) key operate To set , then it becomes automatically.
5) Auto-RGB OK means adjustment is completed.

=> Before White-Balance, the AV ADC should be done.
(RZ : AV, RT : AV1, RM : VIDEO1)

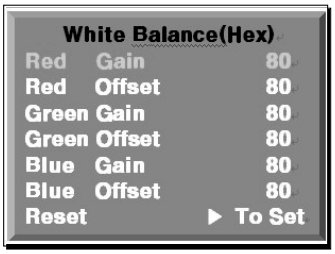
Notice : Before White-Balance, change input mode
- Move to AV3(RZ) or AV(RT) or VIDEO(RM) by using Remote controller.

5. white Balance

5.1 Manual white Balance (AV)
1) Execute CA-110 Zero Calibration.
2) Execute the SET Heat Run for 30minutes
3) Push the ADJ Button then you can see the OSD



4) Push the ADJ Button again for White Balance mode



5) Adjust High light with R/B Gain/Offset(G Gain fix, G Offset fix)

5.2 Auto White Balance(AV)

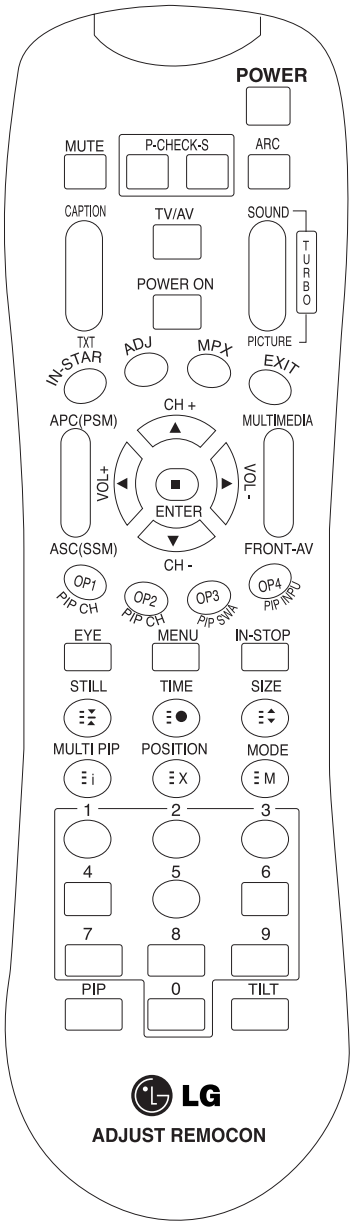
	Command1	Command2	Set ID	Data		Default Value			
		Min	Max	26	32	37	42		
Input Select	XB	B	00	00h	90h				
R-Gain	J	A	00	00h	E0h	CE	D6	B8	D0
G-Gain	J	B	00	00h	E0h	BD	BD	B1	BD
B-Gain	J	C	00	00h	E0h	B1	C5	BA	B4
R-Offset	J	D	00	00h	90h	81	81	80	80
G-Offset	J	E	00	00h	90h	80	80	80	80
B-Offset	J	F	00	00h	90h	7F	7F	7F	7E

6. Shipping Conditions

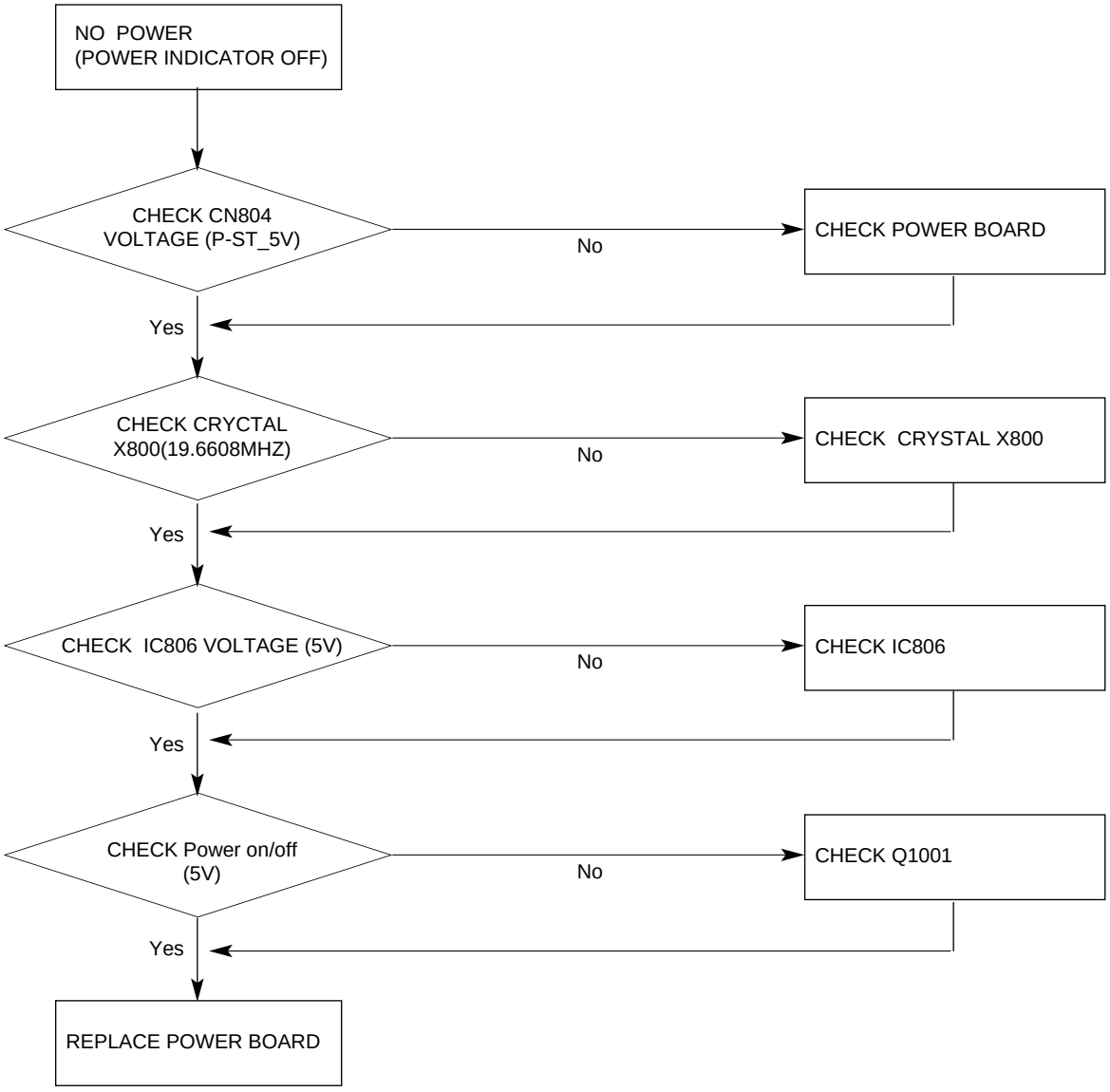
No	Item			Condition	Remark
1	Power			Off	
2	Volume Level			30	
3	Main Picture Input			TV	
4	Main Last Channel			Pr 01	
5	Mute			Off	
6	ARC			16 : 9	
7	Station	Auto Program			
		Manual Program			
		Program Edit			
		Favorite Program		None	
8	Picture	PSM		Dynamic	
		Dynamic	Contrast	100	
			Brightness	45	
			Colour	50	
			Sharpness	50	
		CSM		Normal(Cool)	RZ(RT)
		XD		On	
		ACM		Fleshtone : 1	
				Greentone : 1	
				Bluetone : 1	
9	Sound	SSM		Flat	
		SRS WOW		Off	
		AVL		Off	
		Balance		0	
		Treble		50	
		Bass		50	
		TV Speaker		On	
10	Time	Clock		-- : --	User control
		Off time		Off	
		On time		Off	
		Auto sleep		Off	
11	Special	Input		TV	
		Language		English	Area Management
		Child Lock		Off	
		Set ID		1	
		XD Demo		To Start	
12	Screen	Auto config			
		Manual config			
		XGA Mode			
		ARC			
		Zoom +/-		Variable by each mode	
		Position			
		Cinema			
		NR			
		Reset			

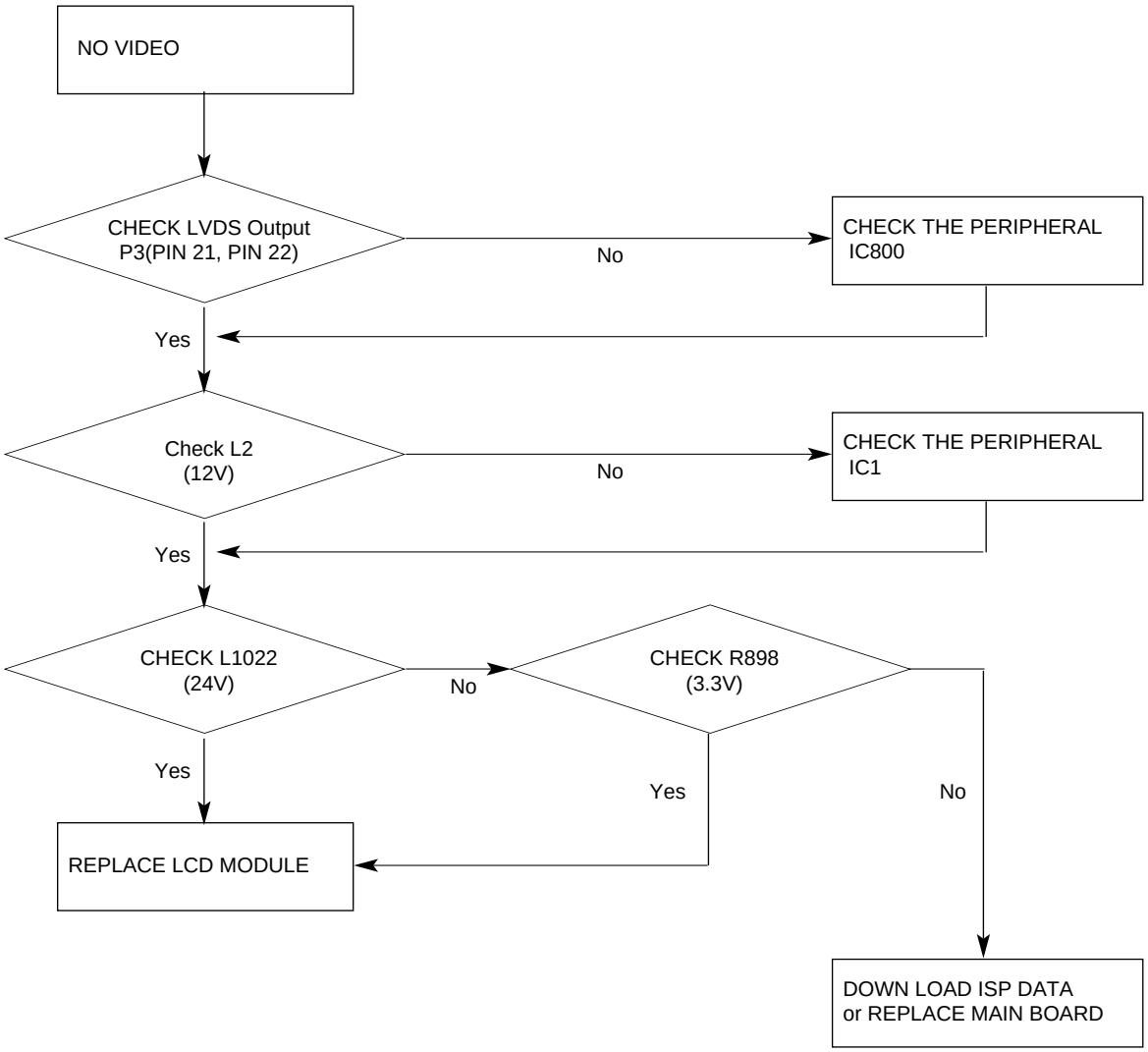
SVC REMOCON

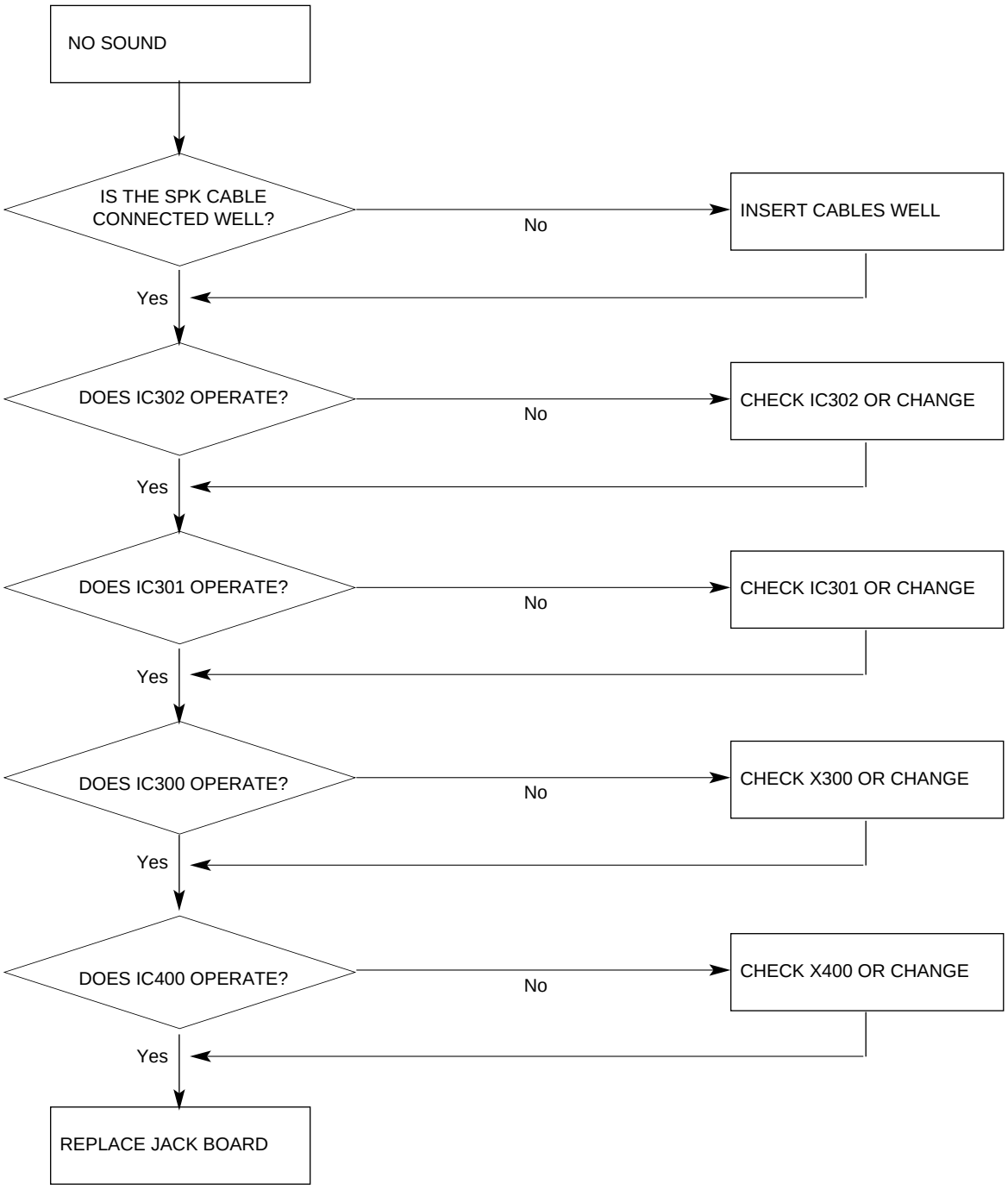
NO	KEY	FUNTION	REAMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut keys
5	S-CHECK	To check TV screen sound easily	Shortcut keys
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys
7	CAPTION	Switch to closed caption broadcasting	
8	TXT	To toggle on/off the teletext mode	
9	TV/AV	To select an external input for the TV screen	
10	TURBO SOUND	To start turbo sound	
11	TURBO PICTURE	To start turbo picture	
12	IN-START	To enter adjustment mode when manufacturing the TV sets.	Use the AV key to enter the screen W/B adjustment mode.
		To adjust the screen voltage (automatic): In-start →mute → Adjust → AV(Enter into W/B adjustment mode)	
		W/B adjustment (automatic): After adjusting the screen →W/B adjustment →Exit two times (Adjustment completed)	
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.	
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)	
15	EXIT	To release the adjustment mode	
16	APC(PSM)	To easily adjust the screen according to surrounding brightness	
17	ASC(SSM)	To easily adjust sound according to the program type	
18	MULTIMIDIA	To check component input	Shortcut keys
19	FRONT-AV	To check the front AV	Shortcut keys
20	CH ±	To move channel up/down or to select a function displayed on the screen.	
21	VOL ±	To adjust the volume or accurately control a specific function.	
22	ENTER	To set a specific function or complete setting.	
23	PIP CH-(OP1)	To move the channel down in the PIP screen. To use as a red key in the teletext mode	
24	PIP CH+(OP2)	To move the channel in the PIP screen To use as a green key in the teletext mode	
25	PIP SWAP(OP3)	To switch between the main and sub screens To use as a yellow key in the teletext mode	
26	PIP INPUT(OP4)	To select the input status in the PIP screen To use as a blue key in the teletext mode	
27	EYE	To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.	
28	MENU	To select the functions such as video, voice, function or channel.	
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.	
30	STILL	To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.)	
31	TIME	Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode	
32	SIZE	Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode	
33	MULTI PIP	Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)	
34	POSITION	To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.)	
35	MODE	Used as Mode in the teletext mode	
36	PIP	To select the simultaneous screen	
37	TILT	To adjust screen tilt	Shortcut keys
38	0~9	To manually select the channel.	



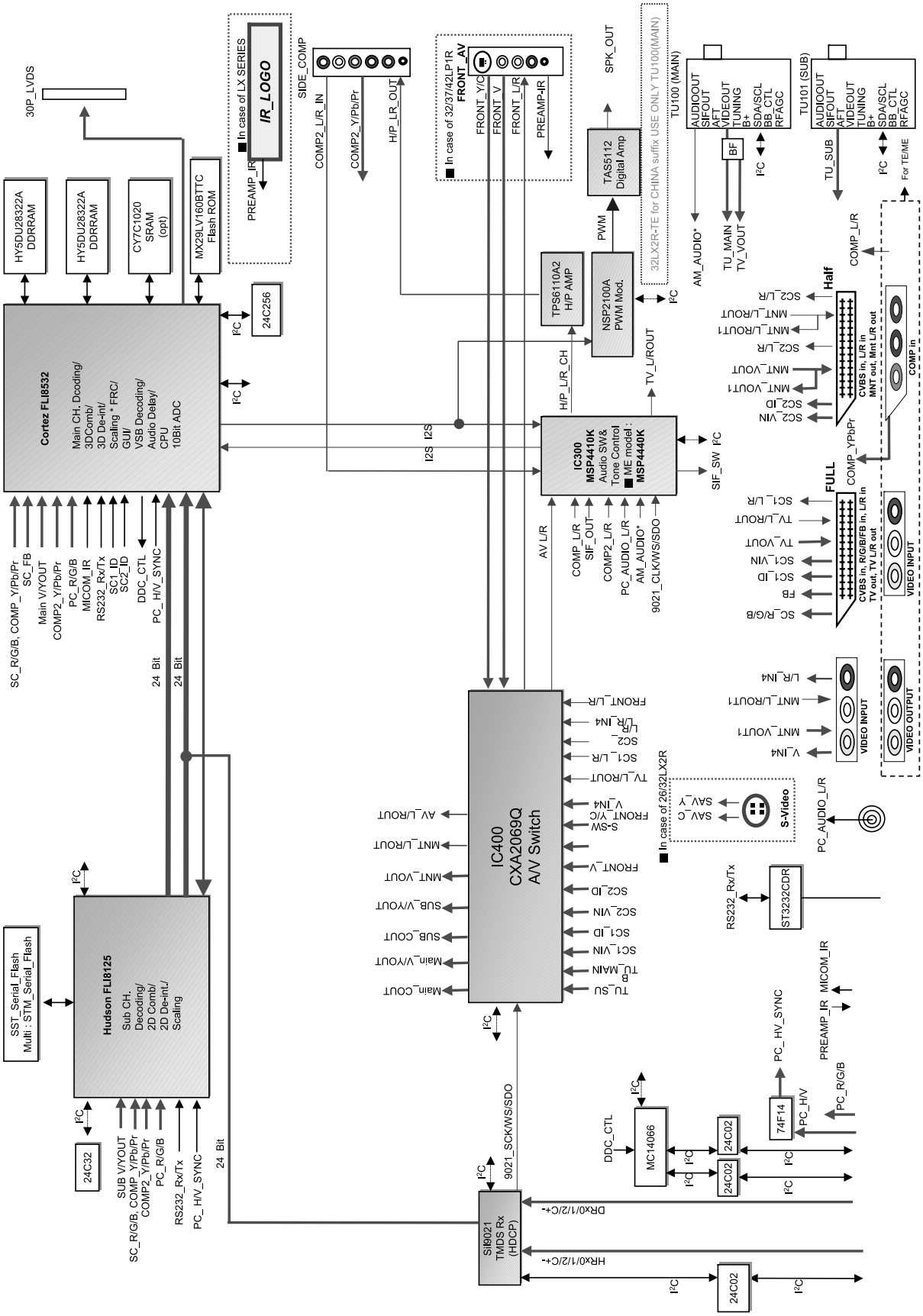
TROUBLESHOOTING



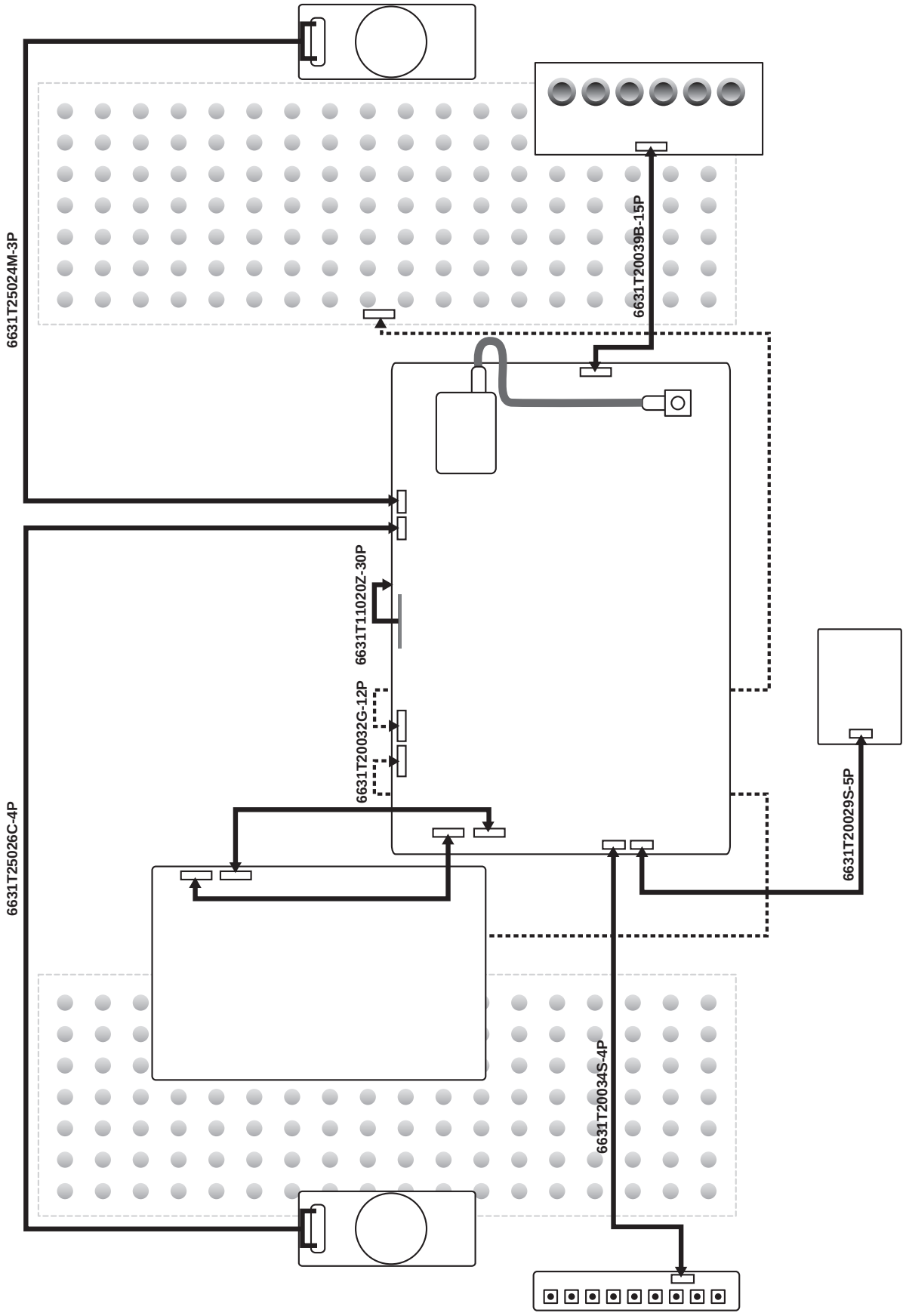

NO VIDEO
CHECK LVDS Output
P3(PIN 21, PIN 22)
No
CHECK THE PERIPHERAL
IC800
Yes
Check L2
(12V)
No
CHECK THE PERIPHERAL
IC1
Yes
CHECK L1022
(24V)
No
CHECK R898
(3.3V)
Yes
Yes
No
REPLACE LCD MODULE
DOWN LOAD ISP DATA
or REPLACE MAIN BOARD


NO SOUND
IS THE SPK CABLE CONNECTED WELL?
No
INSERT CABLES WELL
Yes
DOES IC302 OPERATE?
No
CHECK IC302 OR CHANGE
Yes
DOES IC301 OPERATE?
No
CHECK IC301 OR CHANGE
Yes
DOES IC300 OPERATE?
No
CHECK X300 OR CHANGE
Yes
DOES IC400 OPERATE?
No
CHECK X400 OR CHANGE
Yes
REPLACE JACK BOARD

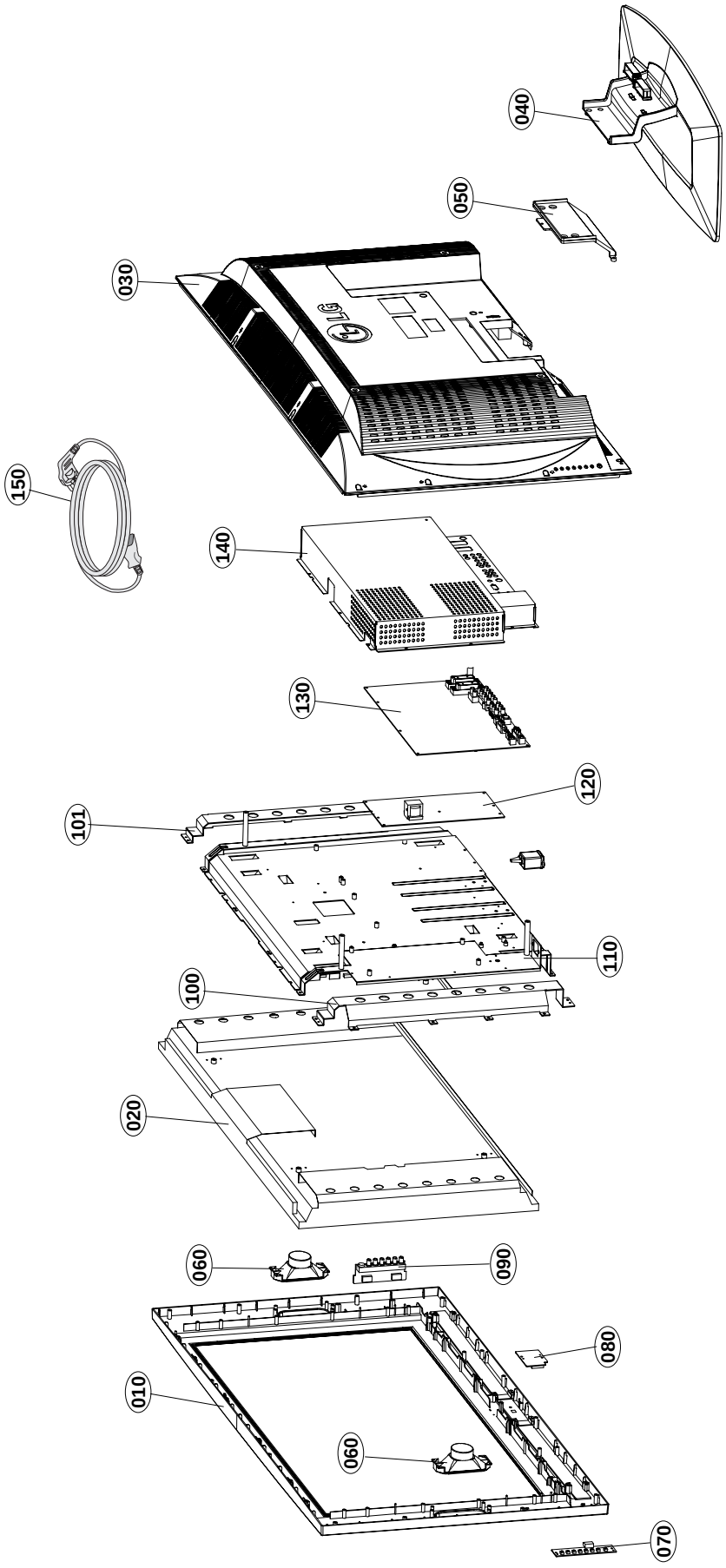
BLOCK DIAGRAM



WIRING DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST(RZ-37LZ55)

No.	PART NO.	DESCRIPTION
010	30919K0001D	CABINET ASSEMBLY, RZ-37LZ55 BRAND 3090TKE030A C/SKD
020	6304FLP291A	LCD(LIQUID CRYSTAL DISPLAY), **LC370W01-C6K1 LG PHILPS TFT COLOR** ODC
	or 6304FLP178A	LCD(LIQUID CRYSTAL DISPLAY), **LC370W01-C6 LG PHILPS TFT COLOR** P6 PLANT, ODC
	6304FLP289A	LCD(LIQUID CRYSTAL DISPLAY), **LC370WX1-SL01 LG PHILPS TFT COLOR** WXGA AIODC SPEC UP LEAD FREE
030	3809900001D	BACK COVER ASSEMBLY, RZ-37LZ55 NON C/SKD
040	3043900001F	TILT SWIVEL ASSEMBLY, RZ-37LZ55 3043900001D .
050	3550TKK975A	COVER, 37LZ50 REAR AV
060	6400GESF01A	SPEAKER,FULLRANGE, C112A02K1450 ESTEC FULL-RANGE(GENERAL) 8OHM 10/15W .DB 110 32LG10
070	68719ST071A	PWB(PCB) ASSEMBLY,SUB, SUB T.T ML051A RZ-37LZ55 KEY
080	68719ST072A	PWB(PCB) ASSEMBLY,SUB, SUB T.T ML051A RZ-37LZ55 IR & LOGO
090	6871TSTA80C	PWB(PCB) ASSEMBLY,SUB, SUB T.T ML051B RZ-37LZ55 SIDE
100	49509K0023B	METAL, SIDE SUPPORTER RIGHT FOR 37LZ55(C/SKD)
101	49509K0024B	METAL, SIDE SUPPORTER LEFT FOR 37LZ55(C/SKD)
110	4950TKA361D	METAL, FRAME, MAIN RZ-37LZ55(C/SKD)
120	6709900002A	POWER SUPPLY ASSEMBLY, FREE TORNADO 37 LCD KN/HE/YY
130	33139P3004A	MAIN TOTAL ASSEMBLY, RZ-37LZ55 BRAND ML-051B(TORNADO)
140	4950TKA362B	METAL, SHIELD, MAIN PLUS ANALOG AV 37LZ55(CKD)
150	6410TEW010A	POWER CORD, LP34A+LS60 LONGWELL VDE/SEMKO 1870MM WALL CD/PB FREE BLACK
	6410TEW011A	POWER CORD, LP22+LS60 LONGWELL IMQ 1870MM WALL CD/PB FREE BLACK**-For Italy**
	6410TBW004A	POWER CORD, LP-61+LS-60 LONGWELL BSI 1870MM WALL CD/PB FREE BLACK**-For U.K**
	6410TPW003A	POWER CORD, LP-33+LS-60 LONGWELL PCT 1870MM WALL CD/PB FREE BLACK**-FOR RUSSIA**

EXPLODED VIEW PARTS LIST(RT-37LZ55)

No.	PART NO.	DESCRIPTION
010	30919K0001G	CABINET ASSEMBLY, RT-37LZ55 FOR LGEAP BRAND 3090TKE030A SET(40AF)
	30919K0001B	CABINET ASSEMBLY, RZ-37LZ55 BRAND 3090TKE030A .**-For Singapore**
	30919K0001D	CABINET ASSEMBLY, RZ-37LZ55 BRAND 3090TKE030A **C/SKD**
020	6304FLP289A	LCD(LIQUID CRYSTAL DISPLAY), LC370WX1-SL01 LG PHILPS TFT COLOR WXGA AIODC SPEC UP LEAD FREE
030	3809900001G	BACK COVER ASSEMBLY, RT-37LZ55 FOR LGEAP NON SET(40AF)
	3809900001E	BACK COVER ASSEMBLY, RM-37LZ55 NON NON**-For Singapore**
	3809900001H	BACK COVER ASSEMBLY, RT/RM-37LZ55 NON **SKD**
040	3043900001B	TILT SWIVEL ASSEMBLY, RZ-37LZ55 4950TKA360A .
	3043900001F	TILT SWIVEL ASSEMBLY, RZ-37LZ55 3043900001D .**- For China, NT LOCAL**
050	3550TKK975A	COVER, 37LZ50 REAR AV
060	6400GESF01A	SPEAKER,FULLRANGE, C112A02K1450 ESTEC FULL-RANGE(GENERAL) 8OHM 10/15W .DB 110 32LG10
070	68719ST071A	PWB(PCB) ASSEMBLY,SUB, SUB T.T ML051A RZ-37LZ55 KEY
080	68719ST072A	PWB(PCB) ASSEMBLY,SUB, SUB T.T ML051A RZ-37LZ55 IR & LOGO
090	6871TSTA80C	PWB(PCB) ASSEMBLY,SUB, SUB T.T ML051B RZ-37LZ55 SIDE
100	49509K0023A	METAL, SIDE SUPPORTER RIGHT FOR 37LZ55
	49509K0023B	METAL, SIDE SUPPORTER RIGHT FOR 37LZ55**(C/SKD)**
101	49509K0024A	METAL, SIDE SUPPORTER LEFT FOR 37LZ55.
	49509K0024B	METAL, SIDE SUPPORTER LEFT FOR 37LZ55**(C/SKD)**
110	4950TKA361B	METAL, FRAME, MAIN RZ-37LZ55
	4950TKA361D	METAL, FRAME, MAIN RZ-37LZ55**(C/SKD)**
120	6709900002A	POWER SUPPLY ASSEMBLY, FREE TORNADO 37 LCD KN/HE/YY
130	33139P3004B	MAIN TOTAL ASSEMBLY, RT-37LZ55 BRAND ML-051B(TORNADO)
140	4950TKA362C	METAL, SHIELD, MAIN PLUS ANALOG AV(RT-37LZ55)SET
	4950TKA362E	METAL, SHIELD, MAIN PLUS ANALOG AV(RT-37LZ55) **SKD**
150	6410TSW003A	POWER CORD, LP-23A+LS-13 LONGWELL SAA 1870MM WALL CD/PB FREE BLACK
	6410TBW004A	POWER CORD, LP-61+LS-60 LONGWELL BSI 1870MM WALL CD/PB FREE BLACK**-For Singapore**

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;	CC, CX, CK, CN, CH : Ceramic CQ : Polyestor CE : Electrolytic CF : Fixed Film	RD : Carbon Film RS : Metal Oxide Film RN : Metal Film RH : CHIP, Metal Glazed(Chip) RR : Drawing

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CAPACITOR				
		C1010	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1011	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1014	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1015	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1016	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1017	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1020	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1021	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1022	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1024	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1026	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1027	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1029	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1031	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1032	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1036	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1038	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1039	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1041	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1043	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1044	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1074	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1076	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1077	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1079	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1080	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1082	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1083	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1098	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1099	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1104	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1106	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1113	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1116	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1118	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1119	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1120	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1121	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1122	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1123	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1124	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1125	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1126	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1127	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1133	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1135	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1137	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1138	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1139	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1143	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1149	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C115	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1150	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1153	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1154	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1155	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1156	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1159	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C116	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1160	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1162	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1163	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1165	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1166	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1167	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1169	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1171	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1172	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C120	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1218	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1219	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C122	0CK273DK51A	27000PF 2012 50V 10% B(Y5P)
		C1220	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1221	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1222	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1223	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1224	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1225	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1226	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1227	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1228	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1229	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C123	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1232	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1234	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1235	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1236	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1237	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1238	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1239	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1240	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1241	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1242	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1243	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1244	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1245	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1246	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1247	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1248	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1249	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1250	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1251	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1252	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1253	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1254	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1255	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1256	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1257	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1258	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1259	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C126	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1260	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1261	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1262	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1263	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1267	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1269	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1272	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1274	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1276	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1277	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1278	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1279	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C128	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1280	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1281	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1282	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1284	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1286	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1287	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1288	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1289	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C129	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1290	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1291	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1292	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1293	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1294	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1295	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1300	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C1303	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1306	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1309	0CH3822K516	8200PF 2012 50V 10% B(Y5P)
		C131	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1310	0CH3822K516	8200PF 2012 50V 10% B(Y5P)
		C1311	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C1315	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1316	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1317	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1318	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1319	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1320	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1322	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1323	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1324	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1325	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1326	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1327	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1329	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1331	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C1336	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1337	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1340	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1341	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C135	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1400	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1401	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1402	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1410	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1413	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1414	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C204	0CH3103K516	10000PF 50V 10% B(Y5P) 2012-**RZ-37LZ55**
		C205	0CH3103K516	10000PF 50V 10% B(Y5P) 2012-**RZ-37LZ55**
		C247	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C248	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C256	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C301	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C306	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C309	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C312	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C316	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C326	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C336	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C340	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C342	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C343	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C344	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C345	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C348	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C349	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C350	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C353	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C354	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C355	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C356	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C357	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C364	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C365	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C366	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C367	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C368	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C369	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C370	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C371	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C375	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C376	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C377	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C379	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C385	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C386	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C387	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C397	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C398	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C4	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C402	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C407	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C412	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C415	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C427	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C428	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C435	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C439	0CH3563K516	56000PF 2012 50V 10% - R/TP
		C440	0CH3223K516	22000PF 2012 50V 10% B(Y5P)
		C442	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C5	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C6	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C601	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C602	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C603	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C604	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C612	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C613	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C614	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C615	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C630	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C632	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C638	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C639	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C647	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C648	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C649	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C650	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C651	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C652	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C657	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C658	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C659	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C660	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C661	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C662	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C664	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C7	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C817	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C906	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C907	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C908	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C909	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C910	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C911	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C912	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C913	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C914	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C915	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C916	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C917	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C918	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C919	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C920	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C921	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C922	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C923	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C924	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C925	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C926	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C927	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C928	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C929	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C931	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C932	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C933	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C934	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C935	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C936	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C937	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C938	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C939	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C940	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C941	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C942	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C950	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C951	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1005	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1006	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1033	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1034	0CH3103K516	10000PF 50V 10% B(Y5P) 2012

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C107	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1102	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1103	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1111	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1164	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C119	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1233	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C124	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C125	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1301	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1308	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C132	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1321	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1328	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1330	0CK225DH94A	"2.2UF 2012 25V 80%,-20% F(Y"
		C1338	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1339	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C138	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C139	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C140	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1403	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1404	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1407	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1409	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C217	0CH3103K516	10000PF 50V 10% B(Y5P) 2012**-RZ-37LZ55**
		C218	0CH3103K516	10000PF 50V 10% B(Y5P) 2012**-RZ-37LZ55**
		C237	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C240	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C244	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C245	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C246	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C311	0CH3223K516	22000PF 2012 50V 10% B(Y5P)
		C313	0CH3223K516	22000PF 2012 50V 10% B(Y5P)
		C323	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C332	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C335	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C339	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C346	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C373	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C381	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C382	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C383	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C384	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C388	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C389	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C390	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C391	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C396	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C401	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C408	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C409	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C410	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C416	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C417	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C418	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C419	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C420	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C421	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C422	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C423	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C424	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C425	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C426	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C429	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C430	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C444	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C446	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C654	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C663	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C803	0CK105DH56A	1UF 2012 25V 10% X7R R/TP
		C815	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C820	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C823	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C825	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C826	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C827	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C828	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C829	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C830	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C831	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C832	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C833	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C834	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C835	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C836	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C837	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C838	0CH5080K116	8PF 2012 50V 0.5 PF NP0 R/T
		C839	0CH5080K116	8PF 2012 50V 0.5 PF NP0 R/T
		C117	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C118	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C1297	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C200	0CH6221K416	220PF 2012 50V 5% NP0 **-RZ-37LZ55**
		C202	0CH6101K416	100PF 50V 5% NP0 2012 R/TP**-RZ-37LZ55**
		C207	0CH6102K406	1000PF 50V 5% SL 2012 R/TP**-RZ-37LZ55**
		C209	0CH6101K416	100PF 50V 5% NP0 2012 R/TP**-RZ-37LZ55**
		C210	0CH6101K416	100PF 50V 5% NP0 2012 R/TP**-RZ-37LZ55**
		C211	0CH6102K406	1000PF 50V 5% SL 2012 R/TP**-RZ-37LZ55**
		C220	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C222	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C223	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C224	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C225	0CH6391K416	390PF 2012 50V 5% NP0 R/TP
		C227	0CH6471K416	470PF 2012 50V 5% NP0 R/TP
		C228	0CH6471K416	470PF 2012 50V 5% NP0 R/TP
		C307	0CH6560K416	56PF 2012 50V 5% NP0 -
		C319	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C330	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C333	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C358	0CH2333K516	33000PF 50V 10% B(Y5P) 2012
		C359	0CH2333K516	33000PF 50V 10% B(Y5P) 2012
		C360	0CH2333K516	33000PF 50V 10% B(Y5P) 2012
		C361	0CH2333K516	33000PF 50V 10% B(Y5P) 2012
		C392	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C395	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C399	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C605	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C606	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C607	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C608	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C609	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C610	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C616	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C617	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C618	0CH6102K406	1000PF 50V 5% SL 2012 R/TP

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C619	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C620	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C621	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C622	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C623	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C624	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C631	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C634	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C635	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C636	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C637	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C643	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C644	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C816	0CH6151K416	150PF 2012 50V 5% NP0 -
		C821	0CH6220K416	22PF 2012 50V 5% NP0 -
		C822	0CH6220K416	22PF 2012 50V 5% NP0 -
		C1081	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C1333	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C203	0CH6221K416	220PF 2012 50V 5% NP0 --**RZ-37LZ55**
		C214	0CH6101K416	100PF 50V 5% NP0 2012 R/TP**-RZ-37LZ55**
		C215	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S**-RT-37LZ55**
		C216	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S**-RT-37LZ55**
		C241	0CH6010K116	1PF 2012 50V 0.5 PF NP0 R/T
		C242	0CH6010K116	1PF 2012 50V 0.5 PF NP0 R/T
		C304	0CH6010K116	1PF 2012 50V 0.5 PF NP0 R/T
		C305	0CH6010K116	1PF 2012 50V 0.5 PF NP0 R/T
		C308	0CH6560K416	56PF 2012 50V 5% NP0 -
		C324	0CH6471K416	470PF 2012 50V 5% NP0 R/TP
		C437	0CH6151K416	150PF 2012 50V 5% NP0 -
		C441	0CC821DK41A	820PF 2012 50V 5% NP0 R/TP
		C645	0CH6180K416	18PF 2012 50V 5% NP0 R/TP
		C646	0CH6180K416	18PF 2012 50V 5% NP0 R/TP
		C655	0CH6120K416	12PF 2012 50V 5% NP0 -
		C656	0CH6120K416	12PF 2012 50V 5% NP0 -
		C352	0CE108CJ618	"1000UF SHL,SD 35V 20% FL TP"
		C374	0CE108CJ618	"1000UF SHL,SD 35V 20% FL TP"
		C1007	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1012	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1013	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1018	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1019	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1023	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1025	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1028	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1030	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1035	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1037	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1040	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1042	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1045	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C106	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C1073	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1075	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1078	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C108	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1084	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1097	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C110	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1105	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1107	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C111	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C1112	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1114	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1117	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C112	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C1128	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1129	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C113	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C1130	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1131	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1132	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1134	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1136	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C114	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C1140	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1142	0CE107WK6DC	100UF MVK 50V 20% R/TP(SMD)
		C1151	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1152	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1157	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1158	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1161	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1168	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1170	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C121	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1230	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1231	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1264	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1265	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1266	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1268	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1273	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1275	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1283	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1285	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1296	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1299	0CE107WH6DC	100UF MVK 25V 20% R/TP(SMD)
		C130	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1302	0CE107WH6DC	100UF MVK 25V 20% R/TP(SMD)
		C1304	0CE106VK6DC	10UF MV 50V 20% R/TP(SMD) S
		C1305	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1307	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1312	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1313	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1314	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1332	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1334	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C1335	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C1406	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1408	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) S
		C1411	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) S
		C1412	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) S
		C1415	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C201	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S-**RZ-37LZ55**
		C206	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)-**RZ-37LZ55**
		C208	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)-**RZ-37LZ55**
		C212	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S-**RZ-37LZ55**
		C213	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S-**RT-37LZ55**
		C219	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C221	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C229	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C230	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C233	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C235	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)-**RZ-37LZ55**
		C236	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C249	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C252	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM-**RT-37LZ55**
		C253	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM-**RT-37LZ55**
		C255	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP-**RT-37LZ55**
		C3	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C302	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C303	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C314	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C325	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD)
		C327	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C328	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C329	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C331	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C334	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C337	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C338	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C341	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C347	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C351	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C372	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD)
		C378	0CE475WJ6DC	4.7UF MVK 35V 20% R/TP(SMD)
		C393	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C394	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C400	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C404	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C406	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C411	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C434	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C436	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C438	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C443	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C611	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C625	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C633	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C640	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C653	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C904	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C905	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C952	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C955	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C362	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE N
		C363	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE N
DIODEs				
		ZD400	0DR050008AA	SD05.TC R/TP SEMTECH SOD323
		ZD401	0DR050008AA	SD05.TC R/TP SEMTECH SOD323
		D100	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1001	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1002	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1005	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1006	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1009	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D101	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1014	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D601	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D602	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D603	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		D1004	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D604	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		ZD1201	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1202	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		ZD200	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-**RZ-37LZ55**
		ZD201	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-**RZ-37LZ55**
		ZD212	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-**RZ-37LZ55**
		ZD213	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD214	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD215	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD216	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD223	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-**RZ-37LZ55**
		ZD226	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-**RZ-37LZ55**
		ZD227	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-**RZ-37LZ55**
		ZD228	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-**RZ-37LZ55**
		ZD229	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-**RZ-37LZ55**
		ZD604	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD208	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-**RZ-37LZ55**
		ZD209	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-**RT-37LZ55**
		ZD221	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD222	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD601	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD602	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD603	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD609	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1400	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD300	0DZKE00048A	KDZ8.2V USC KEC R/TP NON
		ZD1401	0DZ330009DF	MTZJ33B TP ROHM-K DO34 0.5W
	IC			
		IC900	0IZZ9H0062A	"MX29LV160BTTC-70G,LF MACRO-**RZ-37LZ55**
		IC301	0ILNR00015A	"NSP-2100A,LF NEOFIDELITY TQ"
		IC602	0ICS240213A	CAT24W(F)C02J-TE13 8P SOP
		IC603	0ICS240213A	CAT24W(F)C02J-TE13 8P SOP
		IC804	0IAL242561B	AT24C256W-10SU-2.7V ATMEL 8
		IC901	0IMMRHY052C	"HY5DU281622ETP-5,PB FREE HY"
		IC902	0IMMRHY052C	"HY5DU281622ETP-5,PB FREE HY"
		IC201	0IMCRSG010A	ST3232CDR SGS-THOMSON SOP16
		IC300	0IMCRMN028B	MSP4410K MICRONAS 80P/PQFP
		IC302	0IMCRTI028C	"TAS5122DCARG4,LF TEXAS INS"
		IC400	0ISO206900A	CXA2069Q QFP64 BK I2C BUS A
		IC800	0IMCR02005A	FLI8532BD-LF GENESIS 416P/P
		IC304	0IPRPTI034B	"TPA6110A2DGNRG4,LF TEXAS IN"
		IC600	0IPRPS5005A	SII9011CLU(PB FREE) SILICON
		IC601	0IPRP00623A	CM2021-00TR CAMD TSSOP-38 R
		IC802	0ISA721700C	LA7217M MFP14 TP SYNC SEPAR
		IC1000	0IMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK"
		IC1003	0IPMGSG018D	LD1086DT18TR-LF SGS-THOMSON
		IC1004	0IPRPML001A	MIC39100 MICREL 3P SOT223 R
		IC1006	0IPMGSG018D	LD1086DT18TR-LF SGS-THOMSON
		IC1009	0IPMGSG018D	LD1086DT18TR-LF SGS-THOMSON
		IC1012	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC1013	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC1014	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC303	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VO
		IC801	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VO
		IC806	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VO
		IC1001	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1002	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1005	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1007	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1010	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC401	0IPH741400E	74HC14D 14SOP TP SHITTER TR
		IC604	0ISTLFA058A	"74F14SCX FAIRCHILD 14P,SOIC"

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		COIL & CORE & INDUCTOR		
		L303	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L304	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L305	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L306	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L110	6210TCE001L	HB-1T2012-102JT CERATECH 20
		AR601	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AR602	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AR603	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AR604	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AR605	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AR606	6210TCE002B	HB-4M3216-121JT CERATECH 32
		L106	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L107	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L108	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L109	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L111	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L115	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L1001	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1003	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1004	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1005	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1006	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1008	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1009	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L101	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1010	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1011	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1012	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1013	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1014	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1015	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1016	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1017	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1018	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1019	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L102	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1020	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1021	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1022	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1023	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1024	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1026	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1027	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1028	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L103	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1031	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1035	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L105	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1201	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L202	6210TCE001A	HB-1S2012-080JT CERATEC 201-**RZ-37LZ55**
		L203	6210TCE001A	HB-1S2012-080JT CERATEC 201-**RZ-37LZ55**
		L204	6210TCE001A	HB-1S2012-080JT CERATEC 201-**RZ-37LZ55**
		L205	6210TCE001A	HB-1S2012-080JT CERATEC 201-**RZ-37LZ55**
		L206	6210TCE001A	HB-1S2012-080JT CERATEC 201-**RT-37LZ55**
		L209	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L210	6210TCE001A	HB-1S2012-080JT CERATEC 201-**RT-37LZ55**
		L211	6210TCE001A	HB-1S2012-080JT CERATEC 201-**RT-37LZ55**
		L212	6210TCE001A	HB-1S2012-080JT CERATEC 201-**RT-37LZ55**
		L214	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L215	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L216	6210TCE001A	HB-1S2012-080JT CERATEC 201

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		L217	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L299	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L300	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L301	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L302	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L309	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L315	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L316	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L317	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L400	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L601	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L602	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L603	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L604	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L605	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L606	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L607	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L609	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L610	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L611	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L612	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1000	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1002	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1007	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1025	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1029	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1030	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1040	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L116	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1401	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1402	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1403	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1404	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L2	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L207	6210TCE001A	HB-1S2012-080JT CERATEC 201**-RZ-37LZ55**
		L208	6210TCE001A	HB-1S2012-080JT CERATEC 201**-RZ-37LZ55**
		L307	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L308	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L310	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L311	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L312	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L313	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L314	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L318	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L401	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L608	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L200	0LC1020101A	1UH 10% 2012 R/TC FI-B2012-**-RZ-37LZ55**
		L213	0LC0233002A	3.3UH CERATECH R/TP
		L218	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L219	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L220	6210TCE001G	HH-1M3216-501 CERATEC 3216M**-RT-37LZ55**
		L402	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L201	0LC1020101A	1UH 10% 2012 R/TC FI-B2012-**-RZ-37LZ55**
		TRANSISTOR		
		Q1001	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q103	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q105	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q107	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q108	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		Q109	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q113	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q210	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC **--RT-37LZ55**
		Q211	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC **--RT-37LZ55**
		Q213	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC **--RT-37LZ55**
		Q301	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q302	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q303	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q304	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q305	0TR102008AA	KRA102S R/TP KEC SOT23 CHIP
		Q306	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q307	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q309	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q402	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q110	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q111	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q308	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q400	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q401	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q403	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q405	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q406	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		IC1	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A
		RESISTORs		
		AR801	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR802	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR803	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR804	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR806	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR807	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR808	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR809	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR810	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR811	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR812	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		AR813	0RHZTCZ001D	RCA SMART 22OHM 1/16 W 5% 3
		R1004	0RH1801D622	1.8K OHM 1 / 10 W 2012 5.00
		R1005	0RH3601D622	3.6K OHM 1 / 10 W 2012 5.00
		R1006	0RH2401D622	2.4K OHM 1 / 10 W 2012 5.00
		R1007	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1008	0RH1801D622	1.8K OHM 1 / 10 W 2012 5.00
		R1012	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1014	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R107	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R109	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R110	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R111	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R112	0RH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R114	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R115	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R116	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R117	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R119	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R120	0RH1003D622	100K OHM 1 / 10 W 2012 5.00
		R1201	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R1202	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1204	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1205	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R1206	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1207	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R121	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R122	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R123	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R124	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R125	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R126	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R127	0RH2000D622	200 OHM 1 / 10 W 5% D R/TP
		R128	0RH1500D622	150 OHM 1 / 10 W 2012 5.00%
		R129	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R130	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R1300	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1301	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1309	0RH0471D622	4.7 OHM 1 / 10 W 2012 5.00%
		R1401	0RH6800D622	680 OHM 1 / 10 W 5% D R/TP
		R1402	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R142	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R151	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R157	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1801	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R1802	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R1804	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1807	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R200	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R201	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R202	0RH5101D622	5.1K OHM 1 / 10 W 2012 5.00
		R203	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R204	0RH5101D622	5.1K OHM 1 / 10 W 2012 5.00
		R205	0RH0682D622	68 OHM 1 / 10 W 2012 5.00%**-RZ-37LZ55**
		R207	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%**-RZ-37LZ55**
		R208	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R209	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%**-RZ-37LZ55**
		R210	0RH3902D622	39K OHM 1 / 10 W 2012 5.00%**-RZ-37LZ55**
		R211	0RH5102D622	51K OHM 1 / 10 W 2012 5.00%**-RZ-37LZ55**
		R212	0RH4703D622	470K OHM 1 / 10 W 2012 5.00**-RZ-37LZ55**
		R213	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%**-RZ-37LZ55**
		R214	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%**-RZ-37LZ55**
		R215	0RH4703D622	470K OHM 1 / 10 W 2012 5.00**-RZ-37LZ55**
		R216	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%**-RT-37LZ55**
		R217	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%**-RT-37LZ55**
		R218	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%**-RZ-37LZ55**
		R220	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%**-RZ-37LZ55**
		R222	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%**-RT-37LZ55**
		R223	0RH2702D622	27K OHM 1 / 10 W 2012 5.00%**-RT-37LZ55**
		R224	0RH4702D622	47K OHM 1 / 10 W 2012 5.00%**-RT-37LZ55**
		R225	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%**-RT-37LZ55**
		R226	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%**-RT-37LZ55**
		R227	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%**-RT-37LZ55**
		R228	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%**-RT-37LZ55**
		R229	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%**-RT-37LZ55**
		R230	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%**-RT-37LZ55**
		R231	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%**-RT-37LZ55**
		R232	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%**-RT-37LZ55**
		R233	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%**-RT-37LZ55**
		R234	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%**-RT-37LZ55**
		R236	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R237	0RH0682D622	68 OHM 1 / 10 W 2012 5.00%
		R240	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%**-RZ-37LZ55**
		R241	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%**-RZ-37LZ55**
		R243	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D**-RZ-37LZ55**
		R243	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%**-RT-37LZ55**
		R244	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D**-RZ-37LZ55**

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R245	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%**-RZ-37LZ55**
		R246	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D**-RZ-37LZ55**
		R247	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%**-RZ-37LZ55**
		R248	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D**-RZ-37LZ55**
		R249	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%**-RZ-37LZ55**
		R250	0RH3902D622	39K OHM 1 / 10 W 2012 5.00%**-RZ-37LZ55**
		R251	0RH5102D622	51K OHM 1 / 10 W 2012 5.00%**-RZ-37LZ55**
		R257	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R269	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R270	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R271	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R272	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R277	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R279	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R287	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R288	0RH1200D622	120 OHM 1 / 10 W 2012 5.00%
		R301	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R304	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R306	0RH0432D622	43 OHM 1 / 10 W 2012 5.00%
		R307	0RH0432D622	43 OHM 1 / 10 W 2012 5.00%
		R309	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R317	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R319	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R320	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R321	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R322	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R323	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R326	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R329	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R330	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R331	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R338	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R341	0RH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R342	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R343	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R346	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R348	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R349	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R350	0RH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R351	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R352	0RH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R353	0RH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R354	0RH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R355	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R356	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R358	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R359	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R360	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R361	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R362	0RH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R363	0RH0101D622	1.0 1/10W 5 TA
		R364	0RH0101D622	1.0 1/10W 5 TA
		R365	0RH0101D622	1.0 1/10W 5 TA
		R366	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R367	0RH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R372	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R376	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R379	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R380	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R381	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R382	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R389	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R391	0RH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R392	0RH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R393	0RH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R394	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R395	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R396	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R397	0RH0101D622	1.0 1/10W 5 TA
		R398	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R408	0RH3300D622	330 OHM 1 / 10 W 2012 5.00%
		R409	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R411	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R412	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R415	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R428	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R430	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R444	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R447	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R448	0RH1003D622	100K OHM 1 / 10 W 2012 5.00
		R449	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R459	0RH1503D622	150K OHM 1 / 10 W 2012 5.00
		R462	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R466	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R468	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R603	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R604	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R632	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R633	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R634	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R635	0RH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R636	0RH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R637	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R638	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R639	0RH0512D622	51 OHM 1 / 10 W 2012 5.00%
		R640	0RH0512D622	51 OHM 1 / 10 W 2012 5.00%
		R651	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R657	0RH1202D622	12K OHM 1 / 10 W 2012 5.00%
		R658	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R802	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R809	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R814	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R829	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R844	0RH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R865	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R867	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R884	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R885	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R886	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R887	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R890	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R891	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R894	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R896	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R897	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R898	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R899	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R903	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R905	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R906	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R908	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R909	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R910	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R911	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R913	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R920	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R921	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R931	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R936	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R937	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R941	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R942	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R945	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R947	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1000	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1001	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1002	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1003	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1010	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1016	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1302	0RH2002D622	20K OHM 1 / 10 W 2012 5.00%
		R1303	0RH2002D622	20K OHM 1 / 10 W 2012 5.00%
		R1304	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1305	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1306	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1307	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1308	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R144	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R145	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1805	0RH2702D622	27K OHM 1 / 10 W 2012 5.00%
		R1808	0RH2701D622	2.7K OHM 1 / 10 W 2012 5.00
		R1809	0RH2701D622	2.7K OHM 1 / 10 W 2012 5.00
		R1812	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1813	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1815	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R2	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R238	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%-**RZ-37LZ55**
		R239	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%-**RZ-37LZ55**
		R252	0RH4703D622	470K OHM 1 / 10 W 2012 5.00-**RZ-37LZ55**
		R253	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%-**RZ-37LZ55**
		R254	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%-**RZ-37LZ55**
		R255	0RH4703D622	470K OHM 1 / 10 W 2012 5.00-**RZ-37LZ55**
		R260	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%-**RT-37LZ55**
		R261	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%-**RT-37LZ55**
		R262	0RH4703D622	470K OHM 1 / 10 W 2012 5.00-**RT-37LZ55**
		R263	0RH4703D622	470K OHM 1 / 10 W 2012 5.00-**RT-37LZ55**
		R267	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R268	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R273	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R274	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R275	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R276	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R280	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R281	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R282	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R283	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R284	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R285	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R286	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R295	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D-**RT-37LZ55**
		R296	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D-**RT-37LZ55**
		R297	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D-**RT-37LZ55**
		R298	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R299	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R3	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R302	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R303	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R305	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R310	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R311	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R312	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R313	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R314	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R315	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R316	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R318	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R327	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R328	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R332	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R335	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R336	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R337	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R340	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R344	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R345	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R347	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R357	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R368	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R369	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R370	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R373	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R374	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R375	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R377	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R378	0RH2702D622	27K OHM 1 / 10 W 2012 5.00%
		R4	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R401	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R403	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R406	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R407	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R410	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R416	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R417	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R418	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R419	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R420	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R423	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R425	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R426	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R427	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R429	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R433	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R434	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R435	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R436	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R437	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R438	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R439	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R440	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R441	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R442	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R443	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R445	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R446	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R450	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R451	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R456	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%

DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R457	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R458	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R460	0RH5600D622	560 OHM 1 / 10 W 2012 5.00%
		R461	0RH0472D622	47 OHM 1 / 10 W 2012 5.00%
		R463	0RH3901D622	3.9K OHM 1 / 10 W 2012 5.00
		R464	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R465	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R5	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R6	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R606	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R607	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R608	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R609	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R610	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R619	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R620	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R621	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R622	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R623	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R624	0RH1004D622	1M OHM 1 / 10 W 2012 5.00%
		R625	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R626	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R627	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R628	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R629	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R630	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R631	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R641	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R642	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R643	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R644	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R645	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R646	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R647	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R648	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R649	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R650	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R652	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R653	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R654	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R655	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R656	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R659	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R660	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R661	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R662	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R663	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R7	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R800	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R801	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R803	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R805	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R808	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R812	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R813	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R815	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R816	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R817	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R818	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R819	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R820	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R821	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%

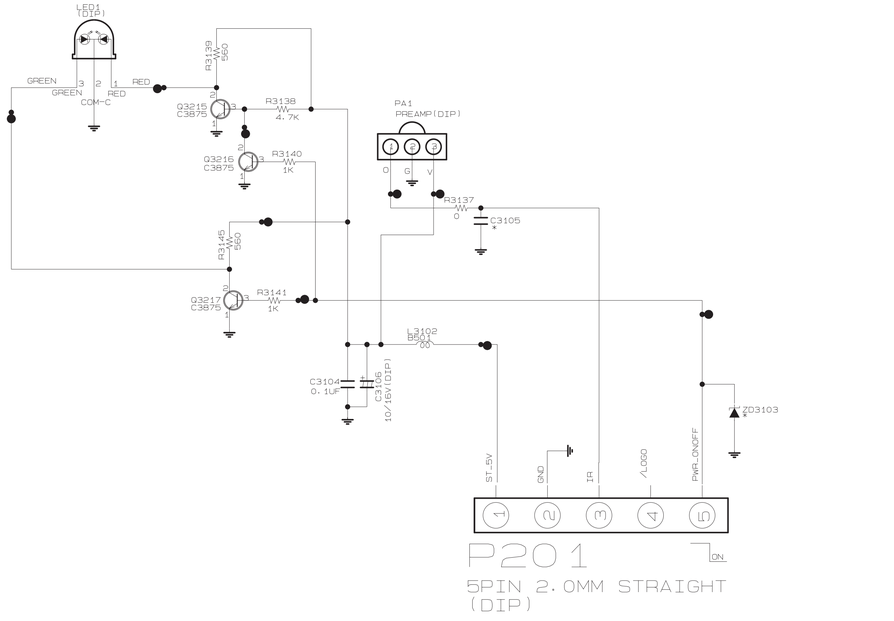
DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R822	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R823	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R824	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R825	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R826	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R827	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R830	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R831	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R832	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R833	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R834	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R835	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R836	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R837	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R838	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R839	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R840	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R841	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R842	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R843	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R846	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R849	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R850	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R851	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R852	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R861	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R863	0RH2702D622	27K OHM 1 / 10 W 2012 5.00%
		R864	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R868	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D-**RT-37LZ55**
		R869	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D-**RT-37LZ55**
		R870	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D-**RT-37LZ55**
		R888	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R889	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R892	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R893	0RH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R900	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R901	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R902	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R914	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R915	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R929	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R930	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R932	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R933	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R934	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R935	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R938	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R939	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R952	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		OTHERs		
		LED3	0DL233309AC	SAM2333 TP KWANG GREEN/RED
		X401	166-E02F	CSBLA500KECZF09-B0 CSB500F9
		X300	6202VDT002H	SX-1 SUNNY 18.432000MHZ +/-
		X600	6212AB2845A	ABLS-27.000MHZ-16-B-4Y-F-T
		X800	6212AB2015G	HC-49/SM BUBANG 19.6608MHZ
		TU100	6700MF0012C	TAFM-W103P LGIT MULTI FS PH
		KEY BOARD		
		SW1201	140-313B	TACT 2LEAD 160G(TA) LG C&D

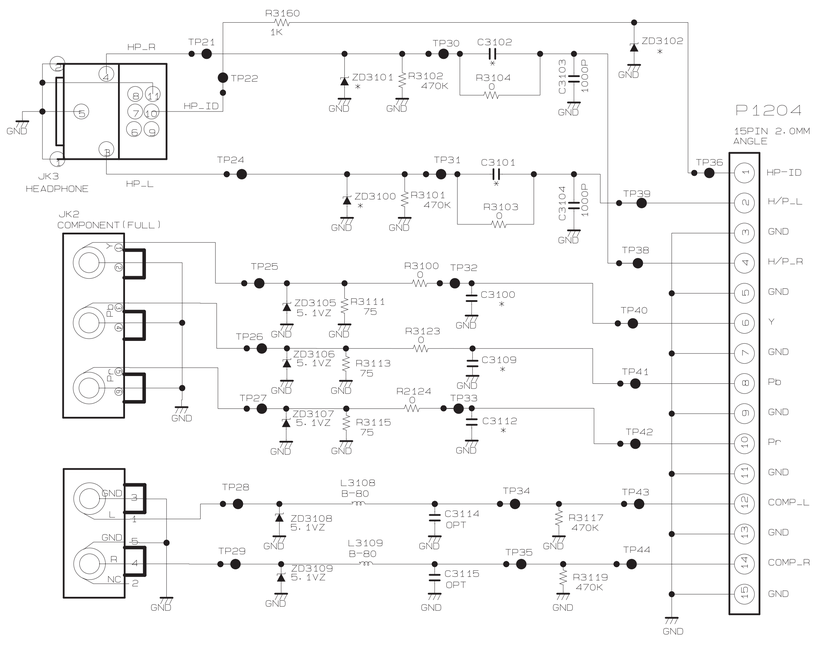
DATE: 2005. 09. 21.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		SW1202	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1203	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1204	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1205	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1206	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1207	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1208	140-313B	TACT 2LEAD 160G(TA) LG C&D
		R2111	0RH3001D622	3K OHM 1 / 10 W 2012 5.00%
		R2112	0RH3001D622	3K OHM 1 / 10 W 2012 5.00%
		R2113	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R2114	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R2115	0RH1301D622	1.3K OHM 1 / 10 W 2012 5.00
		R2116	0RH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R2117	0RH1301D622	1.3K OHM 1 / 10 W 2012 5.00
		R2118	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R2119	0RH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R2120	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		IR&LOGO BOARD		
		C3104	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		L3102	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		Q3215	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3216	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3217	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R3137	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3138	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3139	0RH5600D622	560 OHM 1 / 10 W 2012 5.00%
		R3140	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R3141	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R3145	0RH5600D622	560 OHM 1 / 10 W 2012 5.00%
		C3106	0CE1063F618	"10UF SRE,SE 16V 20% FL TP 5"
		LED1	0DL200000CA	SAM5670(DL-2LRG) BK Y-GREEN
		PA1	6726TV0001A	TSOP4838SO1 VISHAY 38.0KHZ
		SIDE BOARD		
		C3103	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C3104	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		L3108	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L3109	6210TCE001A	HB-1S2012-080JT CERATEC 201
		R3100	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3101	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R3102	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R3103	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3104	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3111	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R3113	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R3115	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R3117	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R3119	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R3123	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3124	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3160	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		ZD3100	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD3101	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD3105	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD3106	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD3107	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323

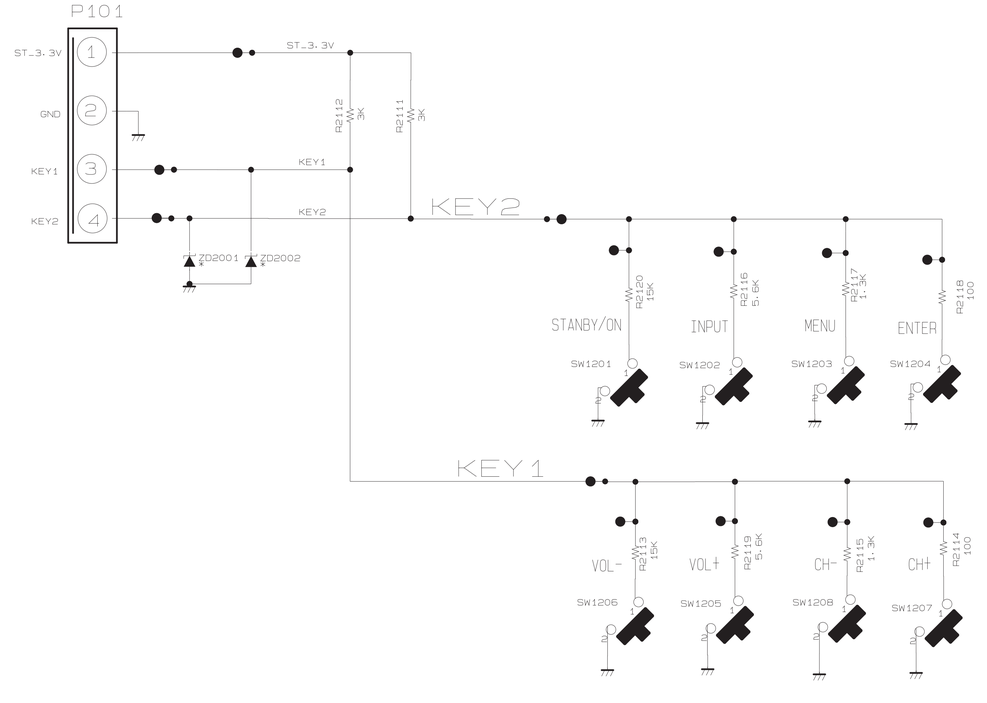
IR_LED
TORNADO



SIDE_COMP



KEY BD
FOR TORNADO



P/NO : 38289S0022F

Sep., 2005
Printed in Korea